## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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1C	COUNTRY	Rumania Theoretical Training Rumanian Air Force	g in the	REPORT NO.  DATE DISTR.  NO. OF PAGES	16 April 19	 953 25X^
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Theoretical Courses at Brasov Airfield for 6th and 17th Bomber Regiments,

- 1. The prerequisite courses and hours to be covered during the period of a year by an Air Force unit were determined by the Bureau of Readiness for Battle or Training (Biroulul Pregatire de Lupta) of the Rumanian Air Force Command (Comandamentul Fortelor Aeriene Militare CFAM).
- 2. The division subdivided the year's courses into monthly periods and relayed these programs to the regiments. The regiment, in turn, subdivided the monthly schedule into weekly schedules and assigned instructors to cover the various subjects. It is to be noted that, during optimum flying conditions in the summer, the 17th and 6th Bomber Regiments at Brasov Airfield flew only two days per week.
- 3. The winter schedule, from 1 December to 15 April, consisted of 60 days of theoretical and practical courses which totaled 242 hours. These courses are listed below and include, in their total number of hours, theoretical training which was given during summer days when there was no flying.
- 4. Courses Attended By All Flight Personnel
  - a. Staff Training (Pregatire de Comandament)...... 75. hours
    - (1) Air Force Tactics (Tactica Aviatiei)....... 30
      - (a) Organization and Role of the Air Force.... ?
      - (b) Properties; Mobility; Time Elements; Fire Power.....?
      - (c) Limitations: costly; rapid physical depreciation; personnel trained with difficulty; dependent on topography and atmospheric conditions

assault (placed 30 km. or more behind front lines.)

recommissance transport air rescue naval aviation artillery spotters

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(2) The Organization of an Airfield......? hours

Adaptation of the Airfield for night flying
Duties of personnel stationed on the base.
System of communications, viz, radio, telephone, flares
Traffic control on the airfield
The zone of the airfield (5-7 km. radius
about the airfield)
The workout zone (5 km. outside the zone of
the airfield)
The airfield's meteorological zone (50 km.
radius about field)

- f. Infantry Training (one hour per week) (all flight and ground personnel participated in this program).... 21 hours
- - (1) Five periods with the ZB, 7.92 cal. military rifle
  - (2) Two periods with light machine gun Rhein Metall aerial mg 7.92 cal.
  - (3) Two periods with military ZB 7.92 cal.
  - (4) Three periods with "Orita" submachine gun (9-mm. long parabellum cartridge).
  - (5) Five periods with 9-mm. Walther pistol
  - (6) Four periods with 12-gauge shotgun at skeet range
  - (7) Four periods with 22 cal. target rifle
- h. Parachute training (no actual jumping was performed)...10 hours
  - (1) Tumbling exercises
  - (2) Free jumps from four-meter-high platform
  - (3) Control of the parachute on the ground

25X1X 25X1 During the numerous parachute jumps were performed at the civilian flying school at Ghimbav Airfield /4542N-2532E7. I always saw four to six parachutes in the air Tate on summer afternoons. On several occasions, I observed 14 parachutists who had jumped from a Junker-52. I believe that these civilian parachutists may be the core of the Rumanian parachute unit which I believe will be formed in the near future. I often heard it said That a Maj. 25X1 Vasile STANCU was to be commander of this parachute unit, which was to be at battalion strength. Maj. STANCU had been Commanding Officer of a Rumanian parachute company during World War II and was known to have made some sixty jumps on the Russian front. During he was Commanding Officer of the 6th Airfield Service Battalion (Batalion Deservirea Aerodroame - BDA). 25X1 he was promoted to the post of Commanding Officer of the Rear Services of the 7th Bomber Division Headquarters in Brasov. He was a pro-Communist and opportunist.)

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	Cou	rses	Atten	ded Only by Pilot Personnel		
	a.	The	Techn	ique of Flying	20	hours
		(1)	Flyi	ng Under Normal Conditions:		
		•	(a)	The take-off		
		-	(b)	Leveling off		
			(c)	Rate of climb		·
	*		(đ)	Turns (correct, incorrect, skidding, slipping, climbing, descending)		<i>:</i>
			(e)	Observation of the ground and aerial space		•
			(f)	Traffic pattern and landing approach; speed		
			(g)	Spot landing	_	
	*		(h)	Use of flaps in landing	•	
			(1)	The actual landing and taxiing		
		•	(t)	Check list, viz., before take-off and after landing		
			.(k)	Emergency procedures		
		(s)	Form	ation Flying:		
			(a)	Take-off, rendezvous, peel-off and landing of formations		
			(b)	Formation under attack; by fighters, by AAA		
			(c) <sub>.</sub>	Combat formations (box (cocori), in trail (sie), echelon to the right (esalonare dreapta), echelon to the left (esalonare stanga)		
			(d) -	In-flight change of formations		
			(e)	Flying in poor weather conditions		, ,
			(f)	Aspect of terrain during wintertime and various snow conditions		
	<b>b</b> ,	<b>Fami</b>	liari	zation with Aircraft	10	hours
		(1)	Char	acteristics		
			(a)	Component parts		
			(b)	Stalling speeds	•	
			(¢)	Weight and balance	-	
			(a)	Canacity of fuel. Tube oil and hydraulic		

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- b. Aerial Photography...... 10 hours
  - (1) Aerial cameras.
    - (a) The F.25 aerial camera, mechanical, adaptable for oblique, panoramic and vertical
    - (b) The F.50 aerial camera, electrical, semiautomatic only for vertical photos. (Both of these cameras were of Rumanian manufacture and had been designed by a Rumanian national named (fnu) CONSTANTINESCU)
  - (2) The importance of aerial photography
  - (3) Interpretation, the stereoscope.
  - (4) The epidiascope
  - (5) Calculation of the scale, overlap in photography (33%)
- 7. Courses Attended by Radio Operators (Radiotelegrafisti)
  - a. Practical training in Morse in the radio room..... 45 hours
- 8. Courses Attended by Mechanics
  - a. On-the-job training and several technical courses with the engineering officer of the regiment
- 9. During the days when there was no flying because of poor weather conditions, the unit improvised classroom studies on the Link trainer, the bomb trainer or in the particular subjects in which personnel had shown a previous deficiency. Twice a month, a staff officer of the Air Division delivered practical application problems to all personnel of the air regiment engaged in this training program. The problems were considered part of the Staff Training and each lasted two hours. Once a month, all flight personnel took part in a one-day infantry field exercise.

# Ground School Courses at Air Cadet Schools No. 1 (Tecuci Airfield) and No. 2 (town of Focsani) /4542N-2712E/

- 10. The theoretical courses at the air cadet schools began on 1 November and continued till 15 April. The schedules could vary by 15 days either way. The Directorate of Schools (Directia Scoli) of the Rumanian AF Headquarters drafted the programs and course requirements in use at the training schools. These programs were forwarded to the school which broke them down into weekly and daily schedules.
- 11. Courses were given six days a week at the two air cadet schools, i.e., 44 hours of class study. The scholastic day was eight hours long the first five days of the week and four hours on Saturdays. There were also two hours of physical training per week. A class period was 50 minutes long with a 10-minute break between classes. The school was given a leeway of a few hours during which it could present the courses in which the students proved to be weaker.

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12.	rat	ther	antry training at these schools stressed tacti than field exercises, since the cadets were, fo rt, recruited from their second year of infant g.	r the	
13.	Wir	ne mat	terial listed below is a translation of the Aiprogram		25X1)
	aub	ject	the period 15 November to 15 April, the follow matter was covered by the Air Cadet Ground Sc ncluded:	ing hool gou	rse,
		6	days of courses and military drilldays left at the discretion of the schooldays allocated for final examinations	46	
14.	Cou	rses	Hours spent per course are estimates7	•	
	a.	Poli	itical Education (Educatie politica)	120	hours
		(1)	Marxist-Leninist Philosophy		
		(2)	Political Economy		
		(3)	History of the Bolshevik Communist Party		•
	b.	Tact	tics of the Air Force (Tactica Aviatiei)	62	hours
		(1)	The Various Types of Aircraft		
		(2)	Properties and Limitations of the Air Force		
		(3)	The Role of the Air Force in Modern Warfare		
		(4)	Support of Ground Units by the Air Force	•	
· ·	Ç.	Tact	cics of the Armed Forces (Tactica Armelor)	48	hours
٠.		(1)	Artillery		
		(2)	Infantry		
		(3)	Moto-mechanized Infantry		•
		(4)	Parachutists		
	• •	(5)	Tanks		•
· .		(6)	Cavalry		
		(7)	Organization and Role of the Rear Services	÷	
	đ.	Aeri	al Navigation (Navigatie aeriana)	64	hours
		(1)	Visual Navigation	-	
		.(2)	ETA Navigation		
		(3)	Basic Theory of Radio Navigation		

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е.	Topo	graphy (Topografie)	ours
	(1)	Cartography and the Various Types of Projections	
	(5)	-Map Reading	
f.	Mathe	matics (Matematica)	urs
***	(1)	Arithmetic - (addition, subtraction, multiplication and division)	
	(2)	Fractions	×.
	(3)	Common Denon nators	N. 2 11/2 / 1
g.	Geom	etry (Geometrie)20 hc	ours
¥.1	(1)	Plane Geometry (lines, angles, surfaces)	
	(2)	Spherical Geometry (surfaces, volumes)	* *
h.	Ruma	nian History (Istoria Romanilor) 20 ho	ours
)	(1)	Text edited by the Rumanian Workers' Party (Partidul Muncitoresc Roman - PMR)	4.
1.	Geog	raphy (Geografie)	ours
	(1)	Geographic Aspects of Rumania	
	(2)	Administrative Regions	
jE	(3)	Communication ways; Roads; Waterways; Mountains	
j.	Airc	raft Engines (Motoare de aviatie)	ours
E	(1)	Types of Motors; Cycles	
	(2)	Component Parts	
4 1	(3)	Fuel Systems (pumps, carburetor, injector, filter, booster)	
	(4)	Oil line systems (pumps, filters)	
	(5)	Starters (electrical system, magnetos)	: A
:	(6)	Cooling systems (air, liquid)	. 4
,*.	(7)	HP; weight per HP ratio	Mary San
k.	Aero	dynamics (Aerodinamica)	ours
	(1)	The Forces Which Act upon Aircraft in Flight	
-	(2)	Active Resistance; Passive Resistance	***)
	(3)	Center of Gravity; Center of Lift	The track
	(4)	Tabs; Flaps; Ailerons; Stabilizers	
1	(5) <sup>,</sup>	Torsional Forces	iw pri
		Practical Aerodynamics	* Y

(2) Hand-to-Hand Fighting

(1) Individual Arms Training

front)

(3) The Soldier in Offensive and Defensive Warfare

Regulations of a Military Post (Regulamentul

(5) Disciplinary Regulations (Regulamentul Disciplinar)(6) Regulations of Units from the Division up (generalities)

(4) Regulations of a Unit in Combat (Regulament de

(4) The Squad (grupa) in Offensive and Defensive Warfare

(5) The Platoon (plutonul) in Offensive and Defensive Warfare

Infantry Training (Instructie militara terestra).... 160 hours

(6) Organization of the Battlefield Units

Serviciului in Campanie - RSC)

Serviciului in garnizoana - RSG).

(Regulamentul Marilor Unitati - RMU)

(7) Night and Day Battle Tactics

- Tidy-up of personal equipment and barracks 2000-2100 2100 Lights out (Stingerea)
- There was no flying on Mondays; the following schedule obtained between 0700-1500. A political lecture was given during the first two hours. The rest of the time was utilized for administrative 18. matters, such as checking squadron and individual logs, checking and exercising with parachute on the ground, performing weekly aircraft check.
- During days when there was no flying because of the weather, the following informal schedule was followed:
  - Aerial navigation
  - b. Theory of instrument flying
  - C. Link Trainer
  - d. Firing on range with 22 cal. rifle and shotgun
  - e. Drill

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20. The air cadet graduated as a single-engine pilot or as a twinengine pilot. He received no training on any operational aircraft. Training on operational aircraft was given in the unit to which cadet was assigned upon graduation.

Theoretical Course at the Night Flying School of the Center of Aviation Instruction

Source was an instructor at this school during July and the first week at Tecuci Airfield.7

- 21. The theoretical course lasted five days, during which the following courses were given:
  - a. Description and Function of the Instrument Panel
  - b. Two verification Sessions on the Link Trainer
  - c. The Organization and Readiness of an Airfield for Night Flying
  - d. Description of Shooting Landings
  - e. The execution of Workout in the Zone of the Airfield
  - f. Landing Aids and Signals (acoustic and optical)
- 22. After the above-mentioned courses, the student instructors were checked out by day on the PO-2, shooting one landing and making three hooded instrument flights. After this, practical flight training was given.

### Ground School Studies for Tupolev-2 Training

- 22. While at Tecuci Airfield for TU-2 flight training between the dates of \_\_\_\_\_\_\_ I went through a short ground school course with Soviet instructors for this aircraft which lasted seven or eight days. The schedule of instruction was as follows:
  - a. Description of the aircraft:
    - (1) Construction; characteristics
    - (2) Gasoline fuel system (tanks, gasoline pumps, gas lines, consumption).
    - (3) Lubricating system (tanks, oil pumps, oil filters, oil lines)
    - (4) Hydraulic system (tanks, hydraulic controls, valves)
  - b. Organization of the airfield for flight readiness
  - c. Shooting landings (theoretical)
  - d. Familiarization and workout in the zone of the airfield (theoretical)
  - e. Starting and stopping of engines
  - f. Taxiing
  - g. Simulated take-offs.

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- 24. Meanwhile, the navigator-bombardiers took the following training:
  - a. Bomb rack system (the 14 combinations of bomb loading and release)
  - b. The bomb sight (optical, type unknown)
  - o. Armament
  - d. Aerial cameras for the Tupolev-6
- 25. The radio-operators took the following training:
  - a. Study of the radio, voice transmission and CW
- 26. The gunners took the following course:
  - a. Familiarization and manipulation of the 20-mm, cannon and machine guns of unknown caliber
- 27. The mechanics were trained as follows:
  - a. Studies of fuselage and motors :
- 28. All the material covered in these courses was entered in a notebook by the flight personnel and recopied in ink. The notebooks, with numbered pages, were stamped and handed in to the Center of Aviation Instruction at that time at Tecuci Airfield. They were forwarded to the individual's home unit but were not reissued to the personnel.